



Computing Curriculum Plan Overview

Year 7			
Term	Topic	Learning	How can parents' best support
Autumn 1	Getting Organised and being safe	<p>Be able to use a computer system safely and responsibly by working in an organised manner, saving files appropriately, being aware of online dangers and how to protect oneself.</p> <ul style="list-style-type: none"> • Logging on and saving files • E - Safety • Recording evidence • Using Email - good email etiquette 	<p>Get involved with what the children may be doing online. Talk about possible online dangers. Watch news and talk about any appropriate news items.</p> <p>Access web pages such as Thinkuknow and discuss topics with your child.</p> <p>Attend E-safety sessions run by the school to have a better understanding of how the children use technology.</p>
Assessment:			
Autumn 2	Computers Past, Present and Future	<p>This module serves a dual purpose, developing students' skills with word-processing and presentation software at the same time as giving them an appreciation of the rapidly changing technologies that have brought the computer to where it is today</p> <ul style="list-style-type: none"> • History of word processing • Computing in the future • Computing history 	<p>Discuss what technology is present in the stores today. Consider and explain what technology was like in the past.</p> <p>Use the internet to find some images to show how things have changed.</p> <p>Watch news or documentaries about the various advances in technology.</p>
Assessment:			
Spring 1	Spreadsheets	<p>Spreadsheets are incredibly useful and powerful tools. They are used every day by people in all sorts of ways, from storing information about products and stock levels to managing multi-million-pound budgets. This module focuses on more advanced features of spreadsheets, including new functions, form controls and macros to develop more bespoke and user-friendly spreadsheets.</p>	<p>If excel is available to you, let your child show you the skills they have learned. Maybe set up a pocket money spreadsheet where they calculate how much they will have if they save for a certain length of time and calculate expenditure, too. Explore the vocabulary of the unit.</p>
Assessment:			
Spring 2	Computational Thinking	<p>Computational thinking is a logical, strategic approach to problem solving involving four cornerstones: decomposition, abstraction, pattern recognition and algorithm design to formulate an efficient and effective algorithm.</p> <ul style="list-style-type: none"> • Learn what an algorithm is. • Decomposing a problem. • Write step by step instructions for simple tasks. • Use Flow charts to demonstrate a simple task. 	<p>If you have any recipes or lego kits around the house. Go through the step by step instructions emphasising the point that you can only move on once the last instruction has been completed.</p> <p>Encourage students to write step by step instructions for a simple task such as making a cup of tea.</p>
Assessment:			
Summer 1	Programming in Scratch	<p>Programming can be broken down into three key constructs: sequence, selection and iteration. When students understand these three key constructs, they will not only be able to demonstrate problem-solving skills in a programming environment but also in everyday life. This module will use Scratch as the mechanism for developing understanding of these concepts using a range of fun block-based programming activities.</p>	<p>Scratch is accessible free online, Students will create their own accounts during the first lesson.</p> <p>There are numerous activities on the scratch website that students can work through in their own time.</p> <p>Students are also given access to a site called Tynker that gives them the opportunity to enjoy working through adventure games using block</p>

			based coding.
Assessment:			
Summer 2	as above	as above	as above